Snow Fence

- •Dick Banowetz, DeWitt Highway Maintenance Supervisor, Iowa DOT
- •Sheri Anderson, Winter Operations Analyst, Iowa DOT
- •Jim Dowd, Winter Operations Research Analyst, Iowa DOT



"National research has found that it costs 100 times more to plow snow than to trap it with a snow fence."



Benefits of snow fence

- Reduces blowing and drifting on the roadway
- Creates safer driving conditions
- Reduces accidents
- Increases visibility
- Decreases freeze-thaw cycles
- Lowers snow removal cost
- Stores snow at low cost

Benefits to land owners

- Improves accessibility to farmsteads and rural areas
- Provides a service to your community
- Helps reduce soil erosion
- Living or standing corn snow fence provides a wildlife habitat
- Can increase yield by retaining moisture and reducing drying effects of the wind
- Payment to land owner



Snow Fence Types





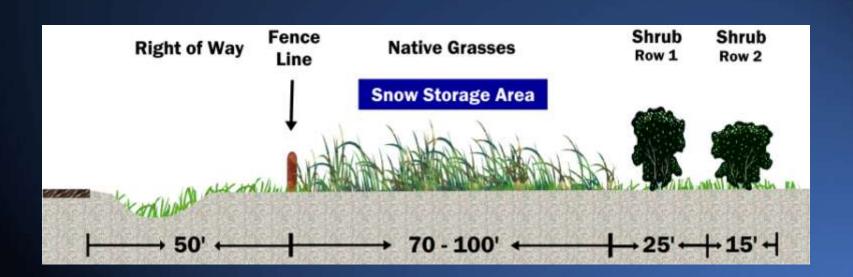






Snow Fence Types

Living snow fence





Snow Fence Budget

- Permanent fence
 - \$0.70 per linear foot
 - FY 10- \$17,180
 - 5.77 miles
- Standing row corn
 - \$3.85 per bushel, 50 cents over the market rate
 - FY 10 \$65,227
 - 80.41 miles, 167 acres



Highway 20 Snow Fence Project

- Combination ROW and Snow Fence
- Does not require access to the adjacent land
- Looks nice
- Does not require yearly maintenance
- Used where limited ROW is available











Roadway Weather Information Systems (RWIS) Research/New Ideas

- Sheri Anderson, Winter Operations Analyst, Iowa DOT
- •Ben Hucker, Engineering Co-op Student, Iowa DOT





Non-Traditional RWIS

- Much lower cost
- Minimal deployment
- Minis
 - Permanent but easy install
- Portables
 - Can move as needs change





Minis

- Pave temp only
- Mount on existing infrastructure
- Very low cost
- Helps fill in where there are gaps in pavement temperature coverage





Portables



- Solar powered and wireless comms.
- Atmospherics and pave temp
- Used for
 - Potential RWIS location trials
 - Short term needs
 - Info during RWIS failure



New Weatherview

- Public access to RWIS now includes
 - Camera views from multiple angles
 - Traffic speed info
 - Google map interface with overlays



http://weatherview.iowadot.gov

Iowa Department of TRANSPORTATION

National Weather Service

Winter Road Conditions

INDEX ABCDEFGHIJKLMNOPQRSTUVWXYZ

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■ Bridge Temp (°F) Wind Speed (mph)

Wind Direction

Wind Gust (mph)

Wind Speed

Dew Point

Visibility

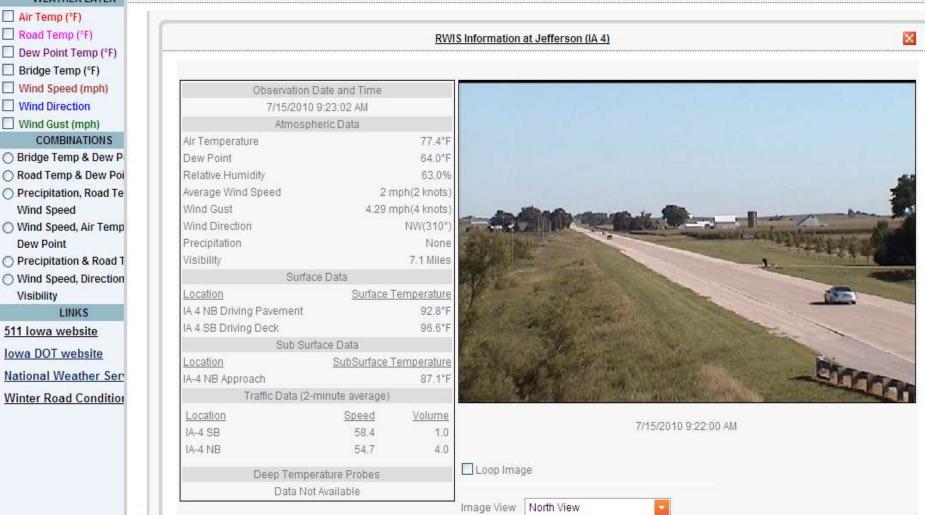
511 lowa website

Iowa DOT website

COMBINATIONS

LINKS

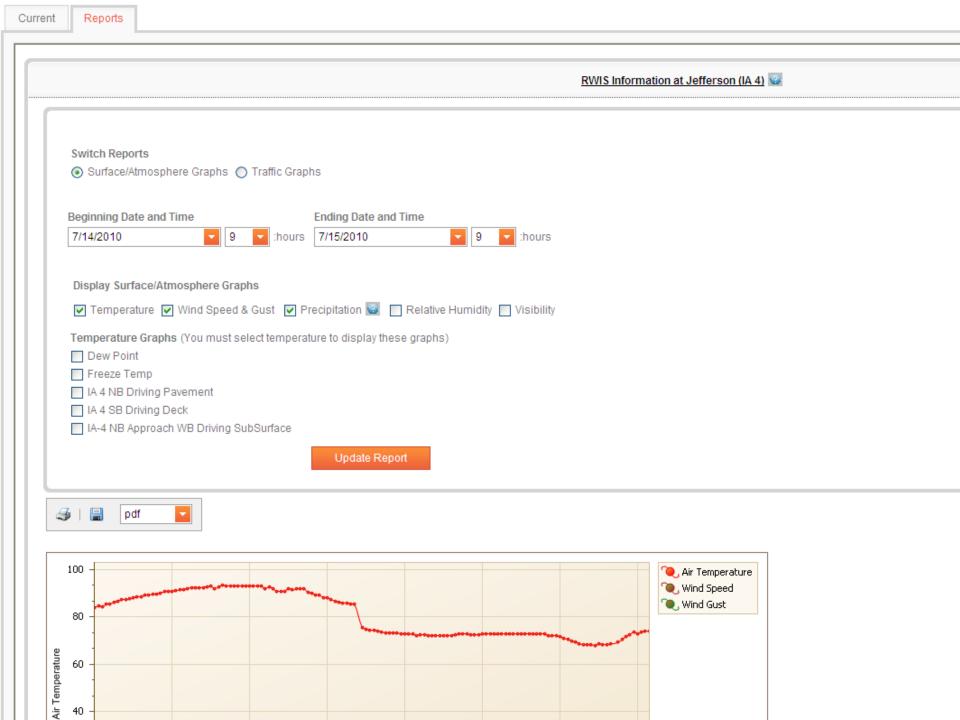




New Weatherview

- Will soon have
 - DOT-only alerting features
 - Crew on/off maps
 - Historical report charts and graphs
 - Camera page
 - Info from mini and portable stations





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Add New Device

Device

Device Created/ Updated (CST)	Device Name	Туре	Device Address	Edit	Delete
Apr 30 2010 12:49PM	office cell email	Email	5152902713@email.uscc.net	<u>Edit</u>	<u>Delete</u>
Jun 02 2010 10:39AM	test device	Email	slkdnj@dlknl.com	Edit	<u>Delete</u>
Mar 30 2010 3:16PM	tina's email	Email	tina.greenfield@dot.iowa.gov	<u>Edit</u>	<u>Delete</u>

Alerts

Enabled	Alert Last Updated (CST)	Alert Description	Alert When	Edit Details
Disabled	Jun 2 2010 10:41AM	Wind	When Speed > 25.00 mph	<u>Edit</u>
Enabled	May 12 2010 8:16AM	Visibility	Visibility < 2.00 miles	Edit
Enabled	Jul 13 2010 3:48PM	Precipitation on Cold Pavement	Road Temp <= 34 and Precip= Any	<u>Edit</u>
Enabled	May 12 2010 8:17AM	Bridge Frost	Bridge Temp<= 80.00 and Bridge Temp < Dew Point	<u>Edit</u>
Enabled	May 6 2010 11:29AM	Precipitation	Precip is Any	<u>Edit</u>



(V1.1 - 05/18/2010) Weather Data Disclaimer: The weather data provided here by the lowa Department of Transportation only reflects conditions at the specified site. Because of lowa weather patterns, conditions can vary greatly in a small area; i.e., weather conditions a few miles away from the sensor could be completely different. In addition, failure of the sensors, or the equipment processing the information, may occur and produce unreliable information. Therefore, this information should not be used as the only factor in determining whether to travel in a particular area. The loware DOT recommends you check a number of sources, including media weather reports, in making your travel plans.

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Let's go have lunch!



The Machine Shed Restaurant 7250 Northwest Blvd.
Davenport, Iowa

Directions:

- Exit DOT grounds and turn left onto IA 130 (NW Blvd.).
- Continue SB on NW Blvd. across I-80.
- Restaurant will be about a block south of I-80 on right.
- Very hard to miss.

